

TENT COOPERATION TREATY

PCT

EV386652296US

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

10/534517

Applicant's or agent's file reference 305253464	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/AU2003/001559	International filing date (day/month/year) 21 November 2003	(Earliest) Priority Date (day/month/year) 21 November 2002
Applicant INDUSTRIAL ECOSYSTEMS PTY LTD et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title, ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract, ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ None of the figures

☐ because the applicant failed to suggest a figure

☐ because this figure better characterizes the invention

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos :
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos : 1
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claim 1 is so broad as to be unsearchable on economic ground.
3. ☐ Claims Nos :
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2003/001559

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C05F 17/00, C05G 5/00, 1/00, A01C 21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN On-line DERWENT, WPATS: C05F/IC, C05G/IC #Keywords: Agglomerat, Pellet, Prill, Granul, Computer, Database**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent Abstract Accession No. 2003-076704/08, Class C04 DE 10120372 A1 (OESTE F D) 31 October 2002 See whole abstract	14
X, Y	Derwent Abstract Accession No. 2003-047421/05, Class C04 CN 1355156 A (ZHU G) 26 June 2002 See whole abstract	2
X	Derwent Abstract Accession No. 2002-616980/66, Class A97, C04 US 2002053229 A1 (VARSHOVI A) 9 May 2002 See whole abstract	14

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

- * Special categories of cited documents:
- | | | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" | earlier application or patent but published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" | document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family |
| "P" | document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search
14 January 2004

Date of mailing of the international search report 22 JAN 2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	Derwent Abstract Accession No. 2002-078133/11, Class C04, D15 JP 2001261477 A (NIPPON SEISHI KK) 26 September 2001 See whole abstract	2
X	Derwent Abstract Accession No. 2001-571351/65, Class C04, D16 CN 1304910 A (JIN C) 25 July 2001 See whole abstract	14
X, Y	Derwent Abstract Accession No. 98-544021/47, Class C04, D16 DE 19821427 A1 (GERTUNG L) 15 October 1998 See whole abstract	2
X, Y	Derwent Abstract Accession No. 2002-395272/43, Class C04, D16 CN 1182726 A (WANG F) 27 May 1998 See whole abstract	2
X, Y	Derwent Abstract Accession No. 97-231121/21, Class A97, C04 JP 09071491 A (HORII M) 18 March 1997 See whole abstract	2
X	Derwent Abstract Accession No. 94-127474/16, Class C04 DE 4240807 C 1 (EHRKE M) 5 May 1994 See whole abstract	14
X, Y	Derwent Abstract Accession No. 92-341138/42, Class P43 DE 4110950 A (ZGE DUENGESTOFFE GROSS-KREUTZ) 8 October 1992 See whole abstract	2
X	Derwent Abstract Accession No. 89-081617/11, Class P13 JP 01-034214 A (KAWAKITA M) 3 February 1989 See whole abstract	14
X	Derwent Abstract Accession No. 84-184440/30, Class C04, D15 HU T032-024 A (EGETO C) 28 June 1984 See whole abstract	14
X, Y	Derwent Abstract Accession No. 70392 E/34, Class C04 DE 3101801 A (HORA LANDWIRTSCHAFT) 19 August 1982 See whole abstract	2
X	Derwent WPAT Online Abstract Accession No. 1973-70349U [46] JP 73037457 B 0 (KUREHA KAGAKU KOGYO KK) DW 1973-46 See whole abstract	14
X	Derwent WPAT Online Abstract Accession No. 1971-46715S [28] DE 1963177 A 0 (WINTERSHALL AG) DW 1971-28 See whole abstract	14

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent WPAT Online Abstract Accession No. 1971-79019S [50] DE 2026186 A 0 (REPPERT RL VON) DW 1971-50 See whole abstract	- 14
X, Y	Derwent WPAT Online Abstract Accession No. 1970-85009R [46] DE 1925272 A 0 (TORFSTREUVERBAND GMBH) DW 1970-46 See whole abstract	2, 14
X, Y	Derwent WPAT Online Abstract Accession No. 1970-59963R [34] CH 491059 A 0 (CHEM WERKE ALBERT AG, DUNGEMITTEL-TECHNIK AG) DW 1970-34 See whole abstract	2, 14
Y	PIERSON S T et. al., "Phosphorus Losses from Grasslands Fertilized with Broiler Litter: EPIC Simulations", J. Environ. Qual. 30:1790-1795 (2001) (retrieved 13 January 2004). Retrieved from the Internet < URL:http://jeq.scijournals.org/cgi/content/full/30/5/1790 > See page 1791 col. 1 lines 20-25, col. 2 line 12 to page 1792 col. 2 line 25	17, 18
Y	JOHNSON A D et. al., "LEACHN Simulations of Nitrogen Dynamics and Water Drainage in an Ultisol", Agronomy Journal 91:597-606 (1999) (retrieved 13 January 2004). Retrieved from the Internet < URL:http://agron.scijournals.org/cgi/content/full/91/4/597 > See page 598 col. 2 line 30 et. seq.	17, 18
Y	FLAY R. B., "Modeling Nitrates and Phosphates in Agricultural Watersheds with the Soil and Water Assessment Tool", EPS 240 Final Paper 17 December 2001 (retrieved 13 January 2004). Retrieved from the Internet < http://www.waterscape.org/pubs/swat/SWAT_Review.PDF > See pages 2-5, especially page 5 lines 8-12	17, 18
Y	JABRO J D et. al., "SOIL-SOILN Simulations of Water Drainage and Nitrate Nitrogen Transport from Soil Core Lysimeters", J Environ. Qual. 30:584-589 (2001) (retrieved 13 January 2004). Retrieved from the Internet < http://jeq.scijournals.org/cgi/content/full/30/2/584 > See page 585 col. 2 line 33 to page 586 col. 1 line 23, Table 3	17, 18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2003/001559

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
DE	10120372	NONE			
CN	1355156	NONE			
US	2002053229	NONE			
JP	2001261477	NONE			
CN	1304910	NONE			
DE	19821427	EP	0957072		
CN	1182726	NONE			
JP	9071491	NONE			
DE	4240807	NONE			
DE	4110950	NONE			
JP	1034214	NONE			
HU	032024	NONE			
DE	3101801	NONE			
JP	48037457	CA	976313	CH	552425
		DE	2218871	FR	2152914
		IT	967141	NL	7212070
				DE	2146042
				GB	1386978
				US	3804003
DE	1963177	NONE			
DE	2026186	NONE			
DE	1925172	NONE			
CH	491059	DE	1592584		
END OF ANNEX					